PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATERITABILITY 2005

(Chapter II of the Patent Cooperation Treaty)

PCT WIPO

(PCT Article 36 and Rule 70)

Applicant's or agent's file refere	nce EOD EUDTUE	D. A.OTION			
P206264PCT	FOR FURTHE	H ACTION	See Form PCT/IPEA/416		
International application No. PCT/NL2004/000561	International filing of 10.08.2004	date (day/month/year)	Priority date (day/month/year) 11.08.2003		
International Patent Classification (IPC) or national classification and IPC					
B66D1/30					
Applicant NOVATIO BY A PARIS					
NOVATUG B.V. et al.					
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. Sent to the applicant and to the International Bureau) a total of 2. sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes					
sequence listing	sequence listing and/or tables related the sequence is a sequence sequence is the sequence is				
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4. This report contains indications relating to the following items:					
☑ Box No. I Basis of the opinion					
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☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Lack of unity of invention					
applica	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited					
	Box No. VII Certain defects in the international application				
🖾 Box No. VIII Certain	☑ Box No. VIII Certain observations on the international application				
Date of submission of the demand					
		Date of completion of this	s report		
3.06.2005		02.08.2005			
lame and mailing address of the international reliminary examining authority:		Authorized Officer			
European Patent Office					
D-80298 Munich Tel. +49 89 2399 - 0	Tx: 523656 epmu d	Ferrien, Y			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000561

	E	Box No. I	Basis of the report	
•	 With regard to the language, this report is based on the international application in the language in whice filed, unless otherwise indicated under this item. 			
			eport is based on translations from the original language is the language of a translation furnished for the purpo	e into the following language , ses of:
		□ inte	ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12 ernational preliminary examination (under Rules 55.2 a	4)
 With regard to the elements* of the international application, this report is based on (replacementary been furnished to the receiving Office in response to an invitation under Article 14 are referenced as "originally filed" and are not annexed to this report): 		·		
	De	escription,	, Pages	
	1-4	4	as originally filed	
	Cla	aims, Nur	nbers	
	1-1	10	received on 13.06.2005 with letter of	13.06.2005
Drawings, Sheets		heets		
	1/3	3-3/3	as originally filed	
			ence listing and/or any related table(s) - see Suppleme	ntal Box Relating to Sequence Listing
3.		The ame	endments have resulted in the cancellation of:	
		⊔ the c	description, pages claims, Nos.	
		☐ the d	Irawings, sheets/ligs equence listing <i>(specify)</i> :	
		□ any ta	cable(s) related to sequence listing (specify):	
4.	□ had Sup	plementa	ort has been established as if (some of) the amendme n made, since they have been considered to go beyond al Box (Rule 70.2(c)).	nts annexed to this report and listed below I the disclosure as filed, as indicated in the
		☐ the de	escription, pages laims, Nos.	
		☐ the dr	rawings, sheets/figs	
		any ta	equence listing (specify): able(s) related to sequence listing (specify):	
			4 applies, some or all of these sheets	may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000561

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

Yes: Claims

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims No: Claims

1-10

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Independent claim 1:
- 1.1. Article 33(2) PCT:

The document D1: DE 31 49 589 A is regarded as being the closest prior art to the subject-matter of claim 1, and shows a winch system comprising a retaining device for a cable, comprising a drum 1 for containing at least two windings of the cable on the casing face thereof, said drum being mounted on bearings such that it can rotate, whereby the distance from the casing face of said drum 1 to the axis of rotation of said bearings varies around the periphery of said drum.

The subject-matter of claim 1 differs from this known winch system in that said winch system comprises a cable storage having a winding/unwinding drum separate from said retaining device.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

1.2. Article 33(3) PCT:

The problem to be solved by the present invention may be regarded as being to provide a winch system with a compact cable retaining device which can be easily operated at different speeds.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The cable is stored in D1 on a central cylindrical part 2 of the drum. The length of the storage part of the drum can be increased in case of an increased need for cable storage capacity (see Fig.8).

In order to solve the above-mentioned problem, the other cited prior art merely foresees to provide a further drum of different diameters on the same axis (see US-A-1 621 714 or also WO 01/30650 A, Fig.5).

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/NL2004/000561

A winch system, whereby the distance from the casing face of the drum to the axis of rotation of the bearings varies around the periphery of said drum and comprising a cable storage having a winding/unwinding drum separate from said retaining device, is not shown or suggested by the available prior art.

The subject-matter of independent claim 1 is therefore considered to involve an inventive step (Article 33(3) PCT).

2. Dependent claims 2-10:

Claims 2-10 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step (Article 33(2)(3) PCT).

Re Item VIII

Certain observations on the international application

The embodiments of the invention shown in figures 1 and 2 and the corresponding parts of the description do not relate to a winch system comprising a cable storage having a winding/unwinding drum separate from the retaining device and therefore do not fall within the scope of the claims. This inconsistency between the claims and the description leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear, Article 6 PCT.

13.03.2003

CLAIMS



- 1. Winch system comprising a retaining device (1) for a cable (4), comprising a drum (2) for containing at least two windings of the cable on the casing face (13) thereof, said drum being mounted on bearings such that it can rotate, characterised in that the distance from the casing face of said drum to the axis of rotation (12) of said bearings varies around the periphery of said drum, characterised in that said winch system comprises a cable storage having a winding/unwinding drum (7) separate from said retaining device.
- 2. Winch system according to Claim 1, wherein at least one location on the periphery of the casing face is essentially coincident with the axis of rotation of said bearing.
- 3. Winch system according to one of the preceding claims, wherein said casing face is circular cylindrical.
- 4. Winch system according to one of the preceding claims, wherein the drum is driven by a motor (10).
- 5. Winch system according to one of the preceding claims, wherein grooves (3) for accommodating the cable have been made in said casing face.
- 6. Winch system according to one of the preceding claims wherein the surface of the casing face is provided with means to obtain more friction between the casing face and the cable.
- 7. Winch system according to one of the preceding claims, wherein said drum is designed to accommodate a stock of cable.
- 8. Winch system according to one of the preceding claims comprising braking means.

- 9. Tug having a winch device with a winch system according to one of Claims 1-7, wherein the cable release point/pick-up point with respect to said boat can be adjusted over 360° in an essentially horizontal plane.
- 10. Tug according to Claim 9, wherein the axis of said drum in the unloaded state is essentially vertical.